>gi|15126197|gb|AAE73433.1| Sequence 2 from patent US 6242217 gi|21517369|gb|AAM60707.1| Sequence 83 from patent US 6399761 Length = 411

Score = 783 bits (2023), Expect = 0.0Identities = 410/411 (99%), Positives = 411/411 (100%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII 60
 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII
- Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT 120 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT
- Sbjct: 61 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT 120
- Query: 121 SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180 SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ
- Sbjct: 121 SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180
- Query: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD 240 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD
- Sbjct: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD 240
- Query: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS
- Sbjct: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300
- Query: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ 360 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ
- Sbjct: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ 360
- Query: 361 ELTPCRRTLSVNHLTNERDVLPPLLKTESIYLNGLTPHCAGEEIAVIENIK 411 ELTPCRRTLSVNHLT+ERDVLPPLLKTESIYLNGLTPHCAGEEIAVIENIK
- Sbjct: 361 ELTPCRRTLSVNHLTSERDVLPPLLKTESIYLNGLTPHCAGEEIAVIENIK 411
 - >gi|15126199|gb|AAE73435.1| Sequence 6 from patent US 6242217 Length = 411

Score = 764 bits (1974), Expect = 0.0
Identities = 394/411 (95%), Positives = 406/411 (98%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII 60 MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII
- Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT 120 GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+
- Sbjct: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120
- Query: 121 SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180

Sbjct:	121	SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ	180					
Query:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD	240					
Sbjct:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD	240					
Query:	241	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	300					
Sbjct:	241	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	300					
Query:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATS+KRKLSAELAGNHNQ	360					
Sbjct:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ	360					
Query:	361	ELTPCRRTLSVNHLTNERDVLPPLLKTESIYLNGLTPHCAGEEIAVIENIK 411 ELTPC RTLSVNHLT+ER+VLPPLLK ESIYLNGLTPHCAGE+IAVIEN+K						
Sbjct:	361	ELTPCMRTLSVNHLTSEREVLPPLLKAESIYLNGLTPHCAGEDIAVIENMK 411						
>gi	•	42828 emb CAC07711.1 unnamed protein product [Mus sp.] Length = 370						
Score = 684 bits (1766), Expect = 0.0 Identities = 356/368 (96%), Positives = 364/368 (98%)								
Query:	1	MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAONSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII	60					
Query: Sbjct:		MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII						
_	1	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII	60					
Sbjct:	1	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT	60 120					
Sbjct: Query: Sbjct:	1 61 61	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+	60 120 120					
Sbjct: Query: Sbjct: Query:	1 61 61 121	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ	60 120 120 180					
Sbjct: Query: Sbjct: Query: Sbjct:	1 61 61 121 121	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ	60 120 120 180					
Sbjct: Query: Sbjct: Query: Sbjct: Query:	1 61 61 121 121 181	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD	60 120 120 180 180 240					
Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct:	1 61 61 121 121 181	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD	60 120 120 180 180 240					
Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct: Query:	1 61 61 121 121 181 181 241	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	60 120 120 180 180 240 240					
Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct:	1 61 61 121 121 181 181 241	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	60 120 120 180 180 240 240 300					
Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct: Query: Sbjct: Query:	1 61 61 121 121 181 241 241 301	MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+ GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ	60 120 120 180 180 240 240 300 360					

ELTPC RT

Sbjct: 361 ELTPCMRT 368

>gi|17917944|gb|AAE85378.1| Sequence 8 from patent US 6309855 Length = 370

Score = 681 bits (1758), Expect = 0.0
Identities = 355/368 (96%), Positives = 363/368 (98%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII 60
 MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII
 Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT 120 GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+
- Sbjct: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120
- Query: 121 SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180 SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPL GFLLAGVGDQ
- Sbjct: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLEGFLLAGVGDQ 180
- Query: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD 240 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD
- Sbjct: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD 240
- Query: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS
- Sbjct: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300
- Query: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ 360 KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATS+KRKLSAELAGNHNQ
- Sbjct: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ 360

Query: 361 ELTPCRRT 368

ELTPC RT

Sbjct: 361 ELTPCMRT 368

INSTANT SEQ ID NO; Y

gi|15126199|gb|AAE73435.1| Sequence 6 from patent US 6242217 Length = 411

Score = 784 bits (2025), Expect = 0.0
Identities = 410/411 (99%), Positives = 410/411 (99%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII
- Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS
- Sbjct: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120
- Query: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ
- Sbjct: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180
- Query: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD 240 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD
- Sbjct: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD 240
- Query: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS
- Sbjct: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300
- Query: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ 360 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ
- Sbjct: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ 360
- Query: 361 ELTPCRRTLSVNHLTSEREVLPPLLKAESIYLNGLTPHCAGEDIAVIENMK 411 ELTPC RTLSVNHLTSEREVLPPLLKAESIYLNGLTPHCAGEDIAVIENMK
- Sbjct: 361 ELTPCMRTLSVNHLTSEREVLPPLLKAESIYLNGLTPHCAGEDIAVIENMK 411
- >gi|15126197|gb|AAE73433.1| Sequence 2 from patent US 6242217 gi|21517369|gb|AAM60707.1| Sequence 83 from patent US 6399761 Length = 411

Score = 768 bits (1984), Expect = 0.0
Identities = 396/411 (96%), Positives = 407/411 (99%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60 MAAPDLLDPKSAAQNSKPRLSFS+KPTVLASRVESD+ INVMKWKTVSTIFLVVVLYLII
- Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSTKPTVLASRVESDTTINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120 GA VFKALEQP EISQRTTIVIQKQTFI+QH+CVNSTELDELIQQIVAAINAGIIPLGN+
- Sbjct: 61 GATVFKALEQPHEISQRTTIVIQKQTFISQHSCVNSTELDELIQQIVAAINAGIIPLGNT 120
- Query: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180

		${\tt SNQ+SHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ}$			
Sbjct:	121	${\tt SNQISHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ}$	180		
Query:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPA+IFKHIEGWSALD	240		
Sbjct:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAIIFKHIEGWSALD	240		
Query:	241	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	300		
Sbjct:	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLR ct: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLR				
Query:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATS+KRKLSAELAGNHNQ	360		
Sbjct:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSIKRKLSAELAGNHNQ	360		
Query:	361	ELTPCRRTLSVNHLTSEREVLPPLLKAESIYLNGLTPHCAGEDIAVIENMK 411			
61		ELTPCRRTLSVNHLTSER+VLPPLLK ESIYLNGLTPHCAGE+IAVIEN+K			
Sbjct:	361	ELTPCRRTLSVNHLTSERDVLPPLLKTESIYLNGLTPHCAGEEIAVIENIK 411			
>gi 100		28 emb CAC07711.1 unnamed protein product [Mus sp.] Length = 370			
		596 bits (1797), Expect = 0.0			
Ident:	ities	s = 367/368 (99%), Positives = 367/368 (99%)			
Query:	1	MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII	60		
Sbjct:	1	MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII	60		
Query:	61	GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS	120		
Sbjct:	61	GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS	120		
Query:	121	SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ	180		
a.		SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ			
Sbjct:	121	SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ	180		
Query:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD	240		
Sbjct:	181	LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD	240		
Query:	241	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	300		
Sbjct:	241	AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS	300		
Query:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ	360		
Sbjct:	301	KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ	360		
Ouerw	361	FLTDCPPT 368			

ELTPC RT

Sbjct: 361 ELTPCMRT 368

>gi|17917944|gb|AAE85378.1| Sequence 8 from patent US 6309855 Length = 370

Score = 693 bits (1789), Expect = 0.0
Identities = 366/368 (99%), Positives = 366/368 (99%)

- Query: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII
- Sbjct: 1 MAAPDLLDPKSAAQNSKPRLSFSSKPTVLASRVESDSAINVMKWKTVSTIFLVVVLYLII 60
- Query: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS
- Sbjct: 61 GAAVFKALEQPQEISQRTTIVIQKQTFIAQHACVNSTELDELIQQIVAAINAGIIPLGNS 120
- Query: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLFGFLLAGVGDQ 180 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPL GFLLAGVGDQ
- Sbjct: 121 SNQVSHWDLGSSFFFAGTVITTIGFGNISPRTEGGKIFCIIYALLGIPLEGFLLAGVGDQ 180
- Query: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD 240 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD
- Sbjct: 181 LGTIFGKGIAKVEDTFIKWNVSQTKIRIISTIIFILFGCVLFVALPAVIFKHIEGWSALD 240
- Query: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS
- Sbjct: 241 AIYFVVITLTTIGFGDYVAGGSDIEYLDFYKPVVWFWILVGLAYFAAVLSMIGDWLRVIS 300
- Query: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ 360
 - KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ
- Sbjct: 301 KKTKEEVGEFRAHAAEWTANVTAEFKETRRRLSVEIYDKFQRATSVKRKLSAELAGNHNQ 360

Query: 361 ELTPCRRT 368

ELTPC RT

Sbjct: 361 ELTPCMRT 368

DIFFERENT FROM SEQ ID NO:4 at residue 366:

```
ANSWER 2 OF 3 DGENE COPYRIGHT 2003 THOMSON DERWENT on STN
1.5
ACCESSION NUMBER: AAY28497 Protein
                                          DGENE
                  New two pore potassium channel used for, e.g.
treatment of
                  cancer, pulmonary, cardiovascular and inflammatory
diseases
INVENTOR:
                  Chapman C G; Meadows H J
                 (SMIK) SMITHKLINE BEECHAM PLC.
PATENT ASSIGNEE:
                  WO 9937762
PATENT INFO:
                               A1 19990729
                                                           44p
APPLICATION INFO: WO 1998-EP7805
                                   19981202
                  GB 1998-22135
PRIORITY INFO:
                                   19981009
                  EP 1998-300570
                                   19980127
DOCUMENT TYPE:
                  Patent
LANGUAGE:
                  English
OTHER SOURCE:
                  1999-469126 [39]
CROSS REFERENCES: N-PSDB: AAZ00040
                  Mouse h-TREK1 polypeptide.
DESCRIPTION:
ΑN
      AAY28497 Protein
                              DGENE
      37 A; 14 R; 14 N; 14 D; 0 B; 5 C; 14 Q; 23 E; 0 Z; 28 G; 7 H;
AΑ
      39 L; 23 K; 5 M; 25 F; 14 P; 29 S; 27 T; 8 W; 9 Y; 34 V; 0
Others
SOL
      411
SEO
        1 maapdlldpk saaqnskprl sfsskptvla srvesdsain vmkwktvsti
       51 flvvvlylii gaavfkaleq pqeisqrtti viqkqtfiaq hacvnsteld
                         ----- -----
      101 eliqqivaai nagiiplgns snqvshwdlg ssfffagtvi ttigfgnisp
      151 rteggkifci iyallqiplf qfllaqvqdq lqtifqkqia kvedtfikwn
      201 vsqtkiriis tiifilfgcv lfvalpavif khiegwsald aiyfvvitlt
      251 tiqfqdyvaq qsdieyldfy kpvvwfwilv glayfaavls miqdwlrvis
      301 kktkeevgef rahaaewtan vtaefketrr rlsveiydkf gratsvkrkl
      351 saelagnhnq eltpcmrtls vnhltserev lppllkaesi ylngltphca
      401 gediavienm k
HITS AT: 65-76
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1 maapdlldpk saaqnskprl sfsskptvla srvesdsain vmkwktvsti
51 flvvvlylii gaavfkaleq pqeisqrtti viqkqtfiaq hacvnsteld
101 eliqqivaai nagiiplgns snqvshwdlg ssfffagtvi ttigfgnisp
151 rteggkifci iyallgiplf gfllagvgdq lgtifgkgia kvedtfikwn
201 vsqtkiriis tiifilfgcv lfvalpavif khiegwsald aiyfvvitlt
251 tigfgdyvag gsdieyldfy kpvvwfwilv glayfaavls migdwlrvis
301 kktkeevgef rahaaewtan vtaefketrr rlsveiydkf qratsvkrkl
351 saelagnhnq eltpcmrtls vnhltserev lppllkaesi ylngltphca
401 qediavienm k
```

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ANSWER 23 OF 33
                        PCTFULL
                                  COPYRIGHT 2003 Univentio on STN
 ACCESSION NUMBER:
                         2001046258 PCTFULL ED 20020827
 TITLE (ENGLISH):
                         TRANSPORTERS AND ION CHANNELS
 TITLE (FRENCH):
                         TRANSPORTEURS ET CANAUX IONIQUES
                         BAUGHN, Mariah, R.;
INVENTOR(S):
                         BURFORD, Neil;
                         AU-YOUNG, Janice;
                         LU, Dyung, Aina, M.;
                         YANG, Junming;
                         REDDY, Roopa;
                         LAL, Preeti;
                         HILLMAN, Jennifer, L.;
                         AZIMZAI, Yalda;
                         YUE, Henry;
                         NGUYEN, Danniel, B.;
                         YAO, Monique, G.;
                         GANDHI, Ameena, R.;
                         TANG, Y., Tom;
                         KHAN, Farrah, A.
                         INCYTE GENOMICS, INC.;
 PATENT ASSIGNEE(S):
                         BAUGHN, Mariah, R.;
                         BURFORD, Neil;
                         AU-YOUNG, Janice;
                         LU, Dyung, Aina, M.;
                         YANG, Junming;
                         REDDY, Roopa;
                         LAL, Preeti;
                         HILLMAN, Jennifer, L.;
                         AZIMZAI, Yalda;
                         YUE, Henry;
                         NGUYEN, Danniel, B.;
                         YAO, Monique, G.;
                         GANDHI, Ameena, R.;
                         TANG, Y., Tom;
                         KHAN, Farrah, A.
 DOCUMENT TYPE:
                         Patent
 PATENT INFORMATION:
                         NUMBER
                                           KIND
                                                   DATE
                         WO 2001046258
                                            A2 20010628
 DESIGNATED STATES
                         AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU
       W:
                         CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN
                         IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK
                         MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
                         TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD
                         SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY
                         DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF
                         CG CI CM GA GN GW ML MR NE SN TD TG
                         WO 2000-US35095
                                            A 20001222
 APPLICATION INFO.:
                         US 1999-60/172,000
                                                 19991223
 PRIORITY INFO.:
                         US 2000-60/176,083
                                                 20000114
                         US 2000-60/177,332
                                                 20000121
                         US 2000-60/178,572
                                                 20000128
                         US 2000-60/179,758
                                                 20000202
                         US 2000-60/181,625
                                                 20000210
```

L6 ANSWER 4 OF 4 MEDLINE on STN DUPLICATE 2

ACCESSION NUMBER: 1999254548 MEDLINE

DOCUMENT NUMBER: 99254548 PubMed ID: 10321245

TITLE: Inhalational anesthetics activate two-pore-domain

background K+ channels.

AUTHOR: Patel A J; Honore E; Lesage F; Fink M; Romey G; Lazdunski M

CORPORATE SOURCE: Institut de Pharmacologie Moleculaire et

Cellulaire-CNRS-UPR 411, Valbonne, France.

SOURCE: NATURE NEUROSCIENCE, (1999 May) 2 (5) 422-6.

Journal code: 9809671. ISSN: 1097-6256.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199905

ENTRY DATE: Entered STN: 19990607

Last Updated on STN: 19990607 Entered Medline: 19990525

Volatile anesthetics produce safe, reversible unconsciousness, amnesia and analgesia via hyperpolarization of mammalian neurons. In molluscan pacemaker neurons, they activate an inhibitory synaptic K+ current (IKAn), proposed to be important in general anesthesia. Here we show that TASK and TREK-1, two recently cloned mammalian two-P-domain K+ channels similar to IKAn in biophysical properties, are activated by volatile general anesthetics. Chloroform, diethyl ether, halothane and isoflurane activated TREK-1, whereas only halothane and isoflurane activated TASK. Carboxy (C)-terminal regions were critical for anesthetic activation in both channels. Thus both TREK-1 and TASK are possibly important target sites for these agents.

L17 ANSWER 16 OF 84 MEDLINE

ACCESSION NUMBER: 95355355

MEDLINE

DOCUMENT NUMBER:

95355355 PubMed ID: 7629068

TITLE:

Amino terminus and the first four membrane-spanning segments of the Arabidopsis K+ channel KAT1 confer inward-rectification property of plant-animal chimeric

channels.

AUTHOR:

Cao Y; Crawford N M; Schroeder J I

CORPORATE SOURCE:

Department of Biology, University of California at San

Diego, La Jolla 92093-0116, USA.

CONTRACT NUMBER:

GM40672 (NIGMS)

SOURCE:

JOURNAL OF BIOLOGICAL CHEMISTRY, (1995 Jul 28)

270 (30) 17697-701.

Journal code: HIV; 2985121R. ISSN: 0021-9258.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199509

ENTRY DATE:

Entered STN: 19950921

Last Updated on STN: 19990129 Entered Medline: 19950905

AB The Arabidopsis hyperpolarization-activated (inward-rectifying) K + channel KAT1 is structurally more similar to animal

depolarization-activated (outward-rectifying) K+

channels than to animal hyperpolarization-activated K+

channels. To gain insight into the structural basis for the

opposite voltage dependences of plant inward-rectifying and animal

outward-rectifying K+ channels, we constructed

recombinant chimeric channels between the hyperpolarization-

activated K+ channel KAT1 and a Xenopus

depolarization-activated K+ channel. We report here

that two of the chimeric constructs, which contain the first third of the KAT1 sequence, including the first four membrane-spanning segments

(S1-S4)

and the linker sequence between the fourth and fifth membrane-spanning segments, express functional channels that retain activation by hyperpolarization, but not depolarization. These two chimeric channels are no longer selective for K+. The chimeras are selective for cations over anions and are permeable to Ca2+. Therefore, unlike animal hyperpolarization-activated K+ channels, in which the carboxyl terminus is important for inward rectification induced by Mg2+ and polyamine block, the plant KAT1 channel has its major determinants for inward rectification in the amino-terminal region, which ends at the end of the S4-S5 linker.



WEST

End of Result Set

Generate Collection Print

11/15/96

L1: Entry 2 of 2

File: USPT

Jan 11, 2000

US-PAT-NO: 6013470

DOCUMENT-IDENTIFIER: US 6013470 A

TITLE: Family of mammalian potassium channels, their cloning and their use

especially for the screening of drugs

DATE-ISSUED: January 11, 2000

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lesage; Florian	Nice			FR
Guillemare; Eric	Nice			FR
Fink; Michel	Cannes La Bocca			FR
Duprat; Fabrice	Valluris			FR
Lazdunski; Michel	Nice			FR
Romey; Georges	Nice			FR
Barhanin; Jacques	Nice			FR

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 536/23.1

CLAIMS:

We claim:

- 1. An isolated and purified nucleic acid molecule encoding a mammalian protein which comprises 2 P domains and 4 transmembrane segments, and is competent to transport potassium across a membrane.
- 2. An isolated and purified nucleic acid molecule encoding a human protein which comprises 2 P domains and 4 transmembrane segments, and is competent to transport potassium across a membrane.
- 3. The nucleic acid molecule of claim 2 encoding a human protein which exhibits weak inward rectification.
- 4. The nucleic acid molecule of claim 3 which is expressed in brain and heart tissue and in addition, in at least one of the following tissues: placenta, liver, skeletal, muscle, kidney and pancreas.
- 5. The human nucleic acid sequence of claim 2 which comprises the sequence represented by SEQ ID No. 1. Limits $SEQ \pm D NO.5$
- 6. A self replication vector comprising the nucleic acid molecule of claim 2.
- 7. A cell transformed with the self replicating vector of claim 6, which cell expresses a human protein which comprises 2 P domains and 4 transmembrane segments, and is competent to transport potassium across a membrane.
- 8. A micro-injected cell comprising the RNA transcript synthesized from the nucleic acid molecule of claim 2, which cell expresses a human protein which

comprises 2 P domains and 4 transmembrane segments, and is competent to transport potassium across a membrane.

- 9. The transformed cell of claim 7, which cell is selected from the group consisting of prokaryotes and eukaryotes.
- 10. The transformed cell of claim 9 which is a bacterium.
- 11. The transformed cell of claim 10 which is a yeast, insect, plant or mammalian cell.
- 12. A method for the production of a human protein competent to transport potassium across a membrane which comprises 2 P domains and 4 transmembrane segments, comprising transferring the vector of claim 6 into a cellular host, culturing the cellular host under conditions allowing the production of said potassium channel, and purifying the human potassium channel.
- 13. The method of claim 12 wherein the cellular host is selected from the group consisting of prokaryotes and eukaryotes.
- 14. A pharmaceutical composition for the compensation of a deficiency in potassium channels at the level of one or more tissues, which comprises an isolated and purified nucleic acid molecule encoding a human protein comprising 2 P domains and 4 transmembrane segments which protein is competent to transport potassium across a membrane.
- 15. A pharmaceutical composition which comprises human cells transformed with the nucleic acid molecule of claim 2.

WEST

End of Result Set

Generate Collection Print

L4: Entry 1 of 1

File: USPT

Jan 11, 2000

DOCUMENT-IDENTIFIER: US 6013470 A

TITLE: Family of mammalian potassium channels, their cloning and their use especially for the screening of drugs

<u>US Patent No.</u> (1): 6013470

Brief Summary Text (5):

The subunits of the voltage-dependent K.sup.+ channels activated by depolarization (Kv families) and the calcium-dependent K.sup.+ channels exhibit six hydrophobic transmembranal domains, one of which (S4) contains repeated positive charges which confer on these channels their sensitivity to voltage and, consequently, in their functional outward rectification (Logothetis, D. E. et al., 1992, Neuron, 8, 531-540; Bezanilla, F. and Stefani, E., 1994, Annu. Rev. Biophys. Biomol. Struct., 23, 819-846).